



# Follow-up Information



David Knight, NCDENR Assistant Secretary for Natural Resources  
December 20, 2012

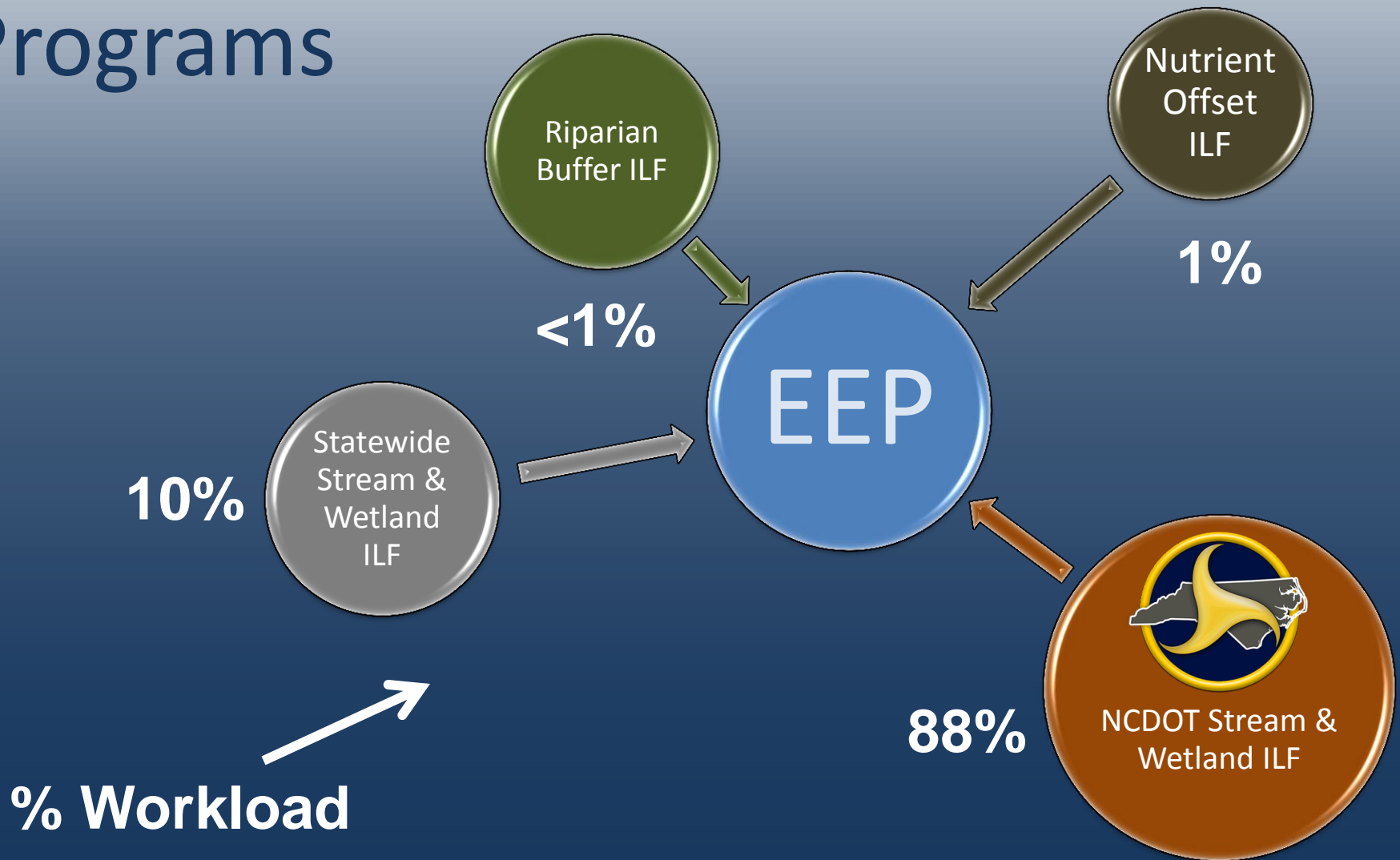


# Presentation Outline

- EEP Budget
- Refunds
- Payments for residential developments
- Projects on public lands
- Contracting Processes
  - Construction contractor prequalification
  - On-call consultants



# EEP's Mitigation Programs





# NCDOT Budget FY 2011-2012

Administration	\$4,450,836
Restoration	\$36,710,723
Stewardship	\$83,040
Planning Framework	\$974,632
<b>Total</b>	<b>\$42,219,231</b>



\*Stewardship <1%



# FY 2011-2012 Customer Receipts (non-NCDOT Programs)

Statewide Stream & Wetland	\$5,619,328.84
Riparian Buffer	\$237,914.88
Nutrient Offset	\$610,409.89
<b>Total</b>	<b>\$6,467,653.61</b>



# Refund Policy Established 2009

- Contingent on fund availability
- Intended to provide relief when customers have unforeseen changes in their development project

60 refunds granted (full/partial)

No requests denied | Over \$1.9 million

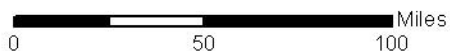
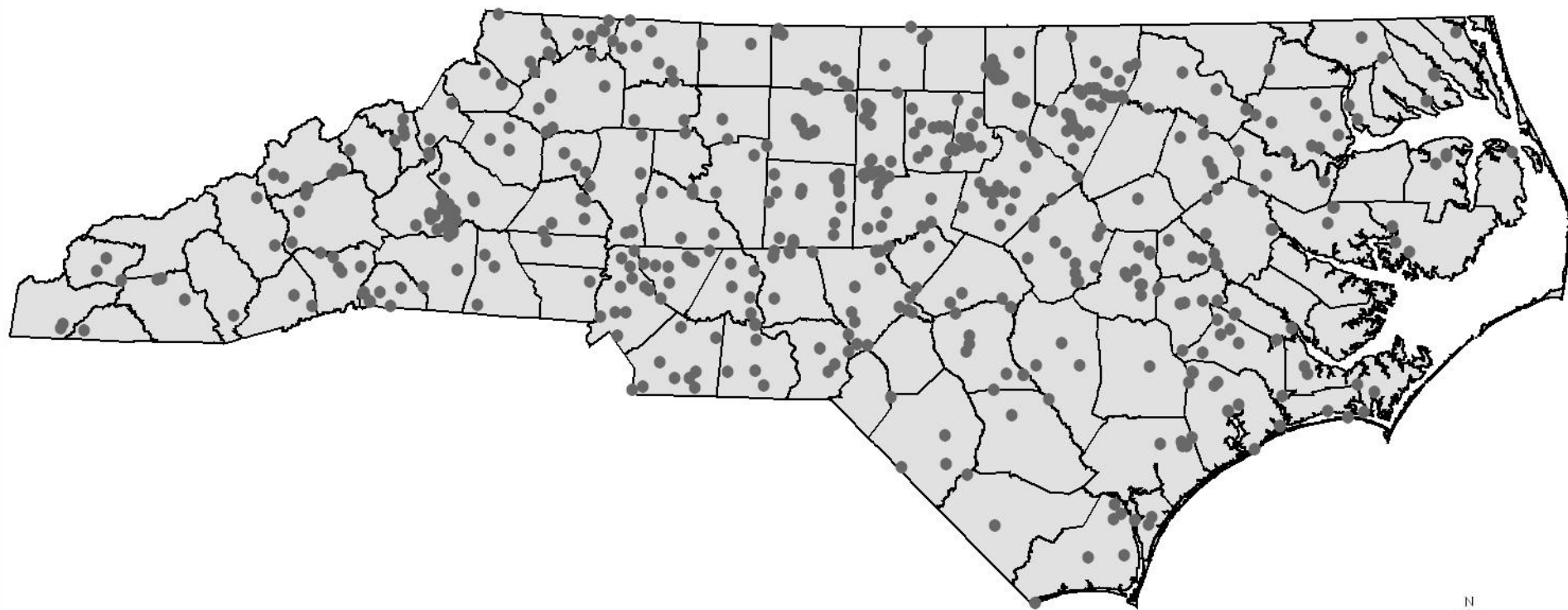


# Stream & Wetland Payments

- Payments associated with over 600 residential development projects statewide
- > \$18,500,000 in receipts
- To provide mitigation for
  - 67,000 linear feet of stream
  - 185 acres of wetland
- Consistently report high levels of customer satisfaction



## EEP Projects Located on Public Lands



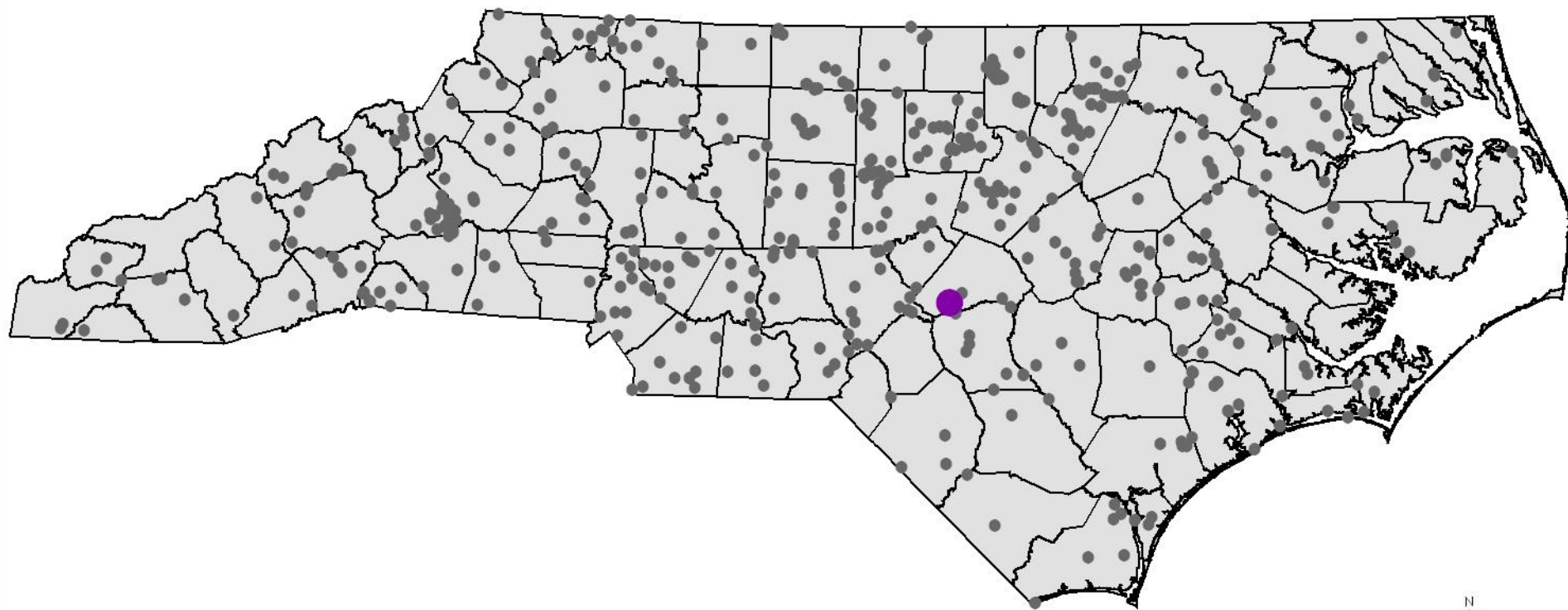
### Legend

- EEP Mitigation Site







## EEP Projects Located on Public Lands



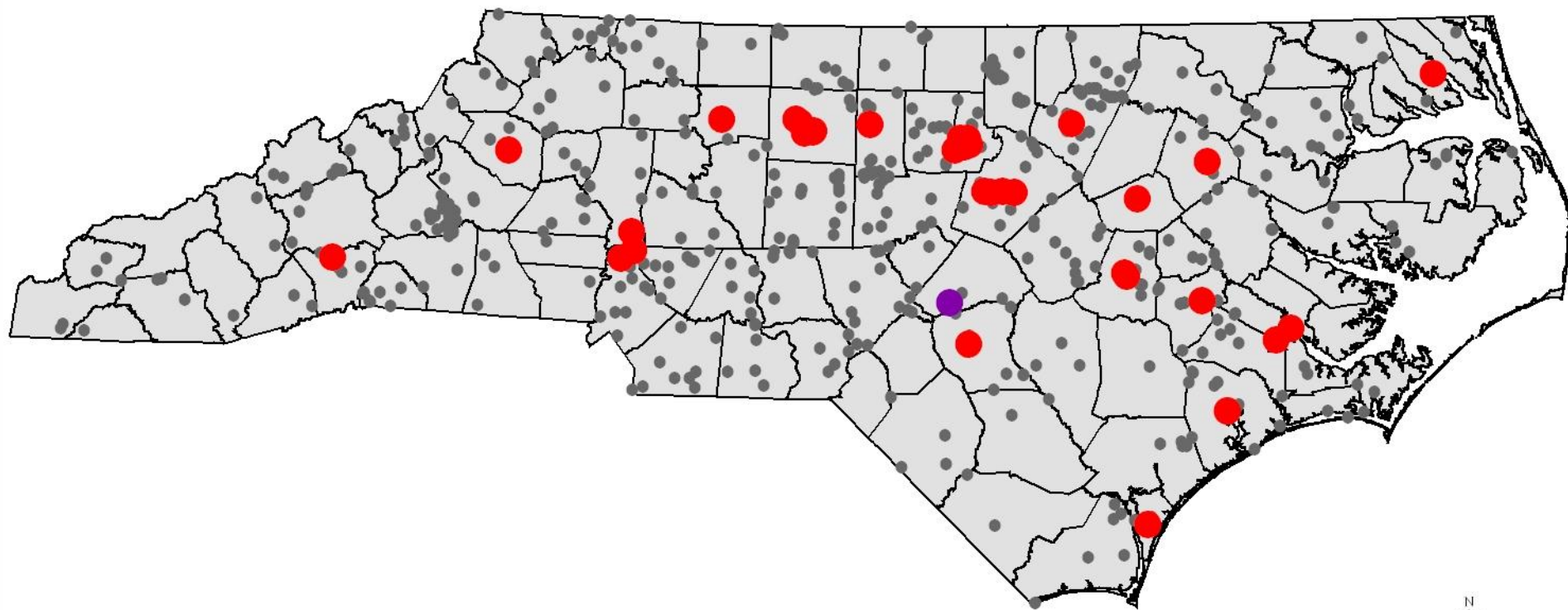
### Legend

-  Federal Army Base (1)
-  EEP Mitigation Site

0 50 100 Miles






## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

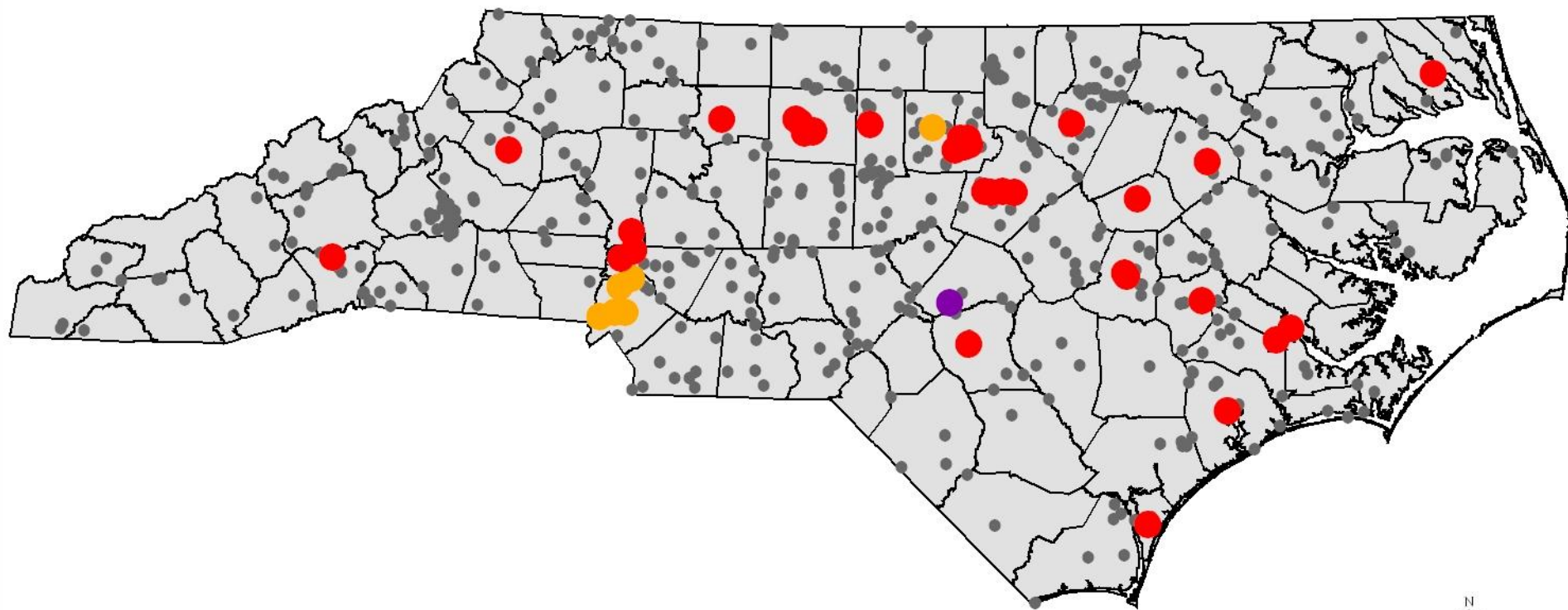
-  Federal Army Base (1)
-  City Park/Property (34)
-  EEP Mitigation Site

0 50 100 Miles









## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

-  Federal Army Base (1)
-  City Park/Property (34)
-  County Park (6)
-  EEP Mitigation Site

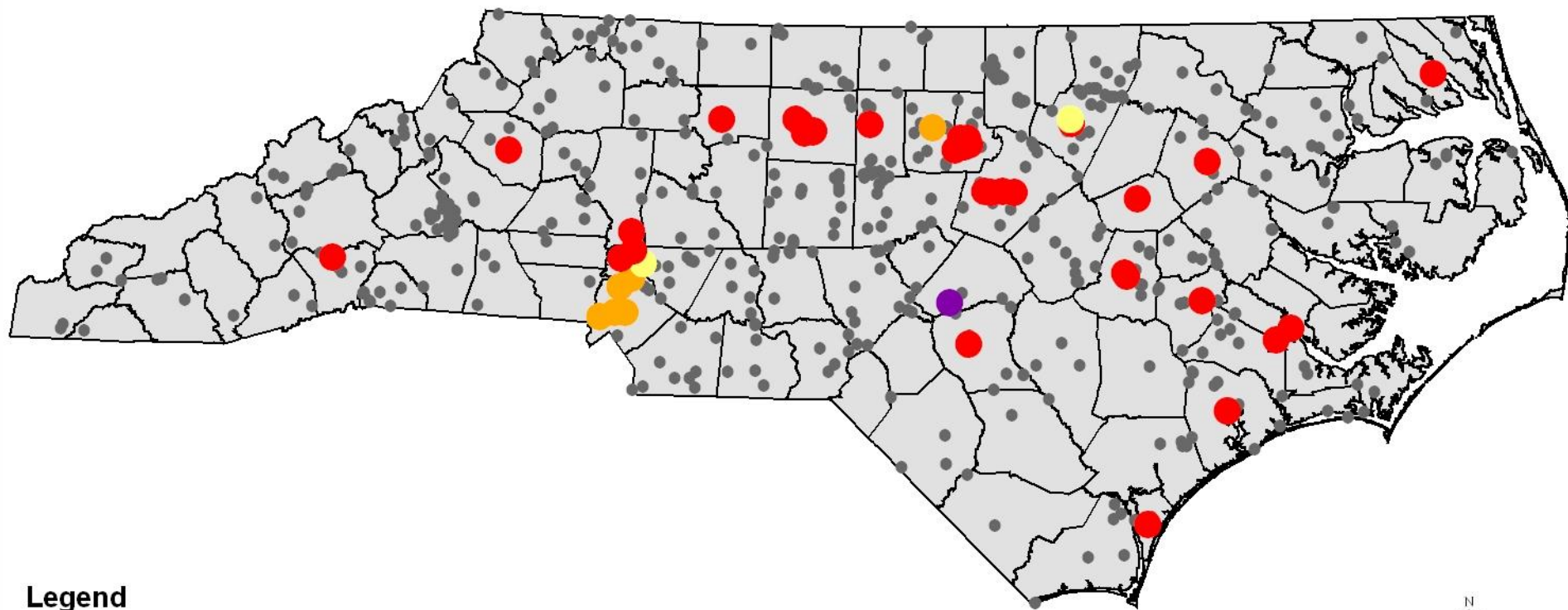
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## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

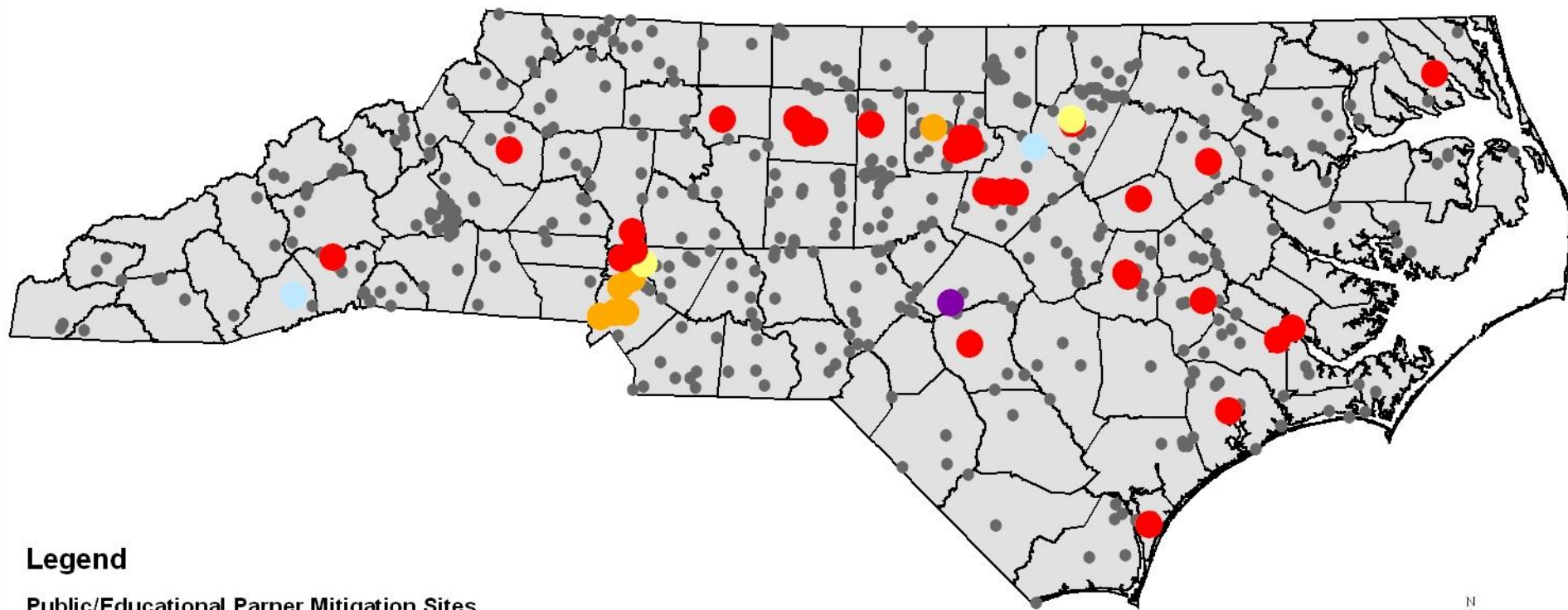
- Federal Army Base (1)
- City Park/Property (34)
- County Park (6)
- Public Grade School (2)
- EEP Mitigation Site

0 50 100 Miles





## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

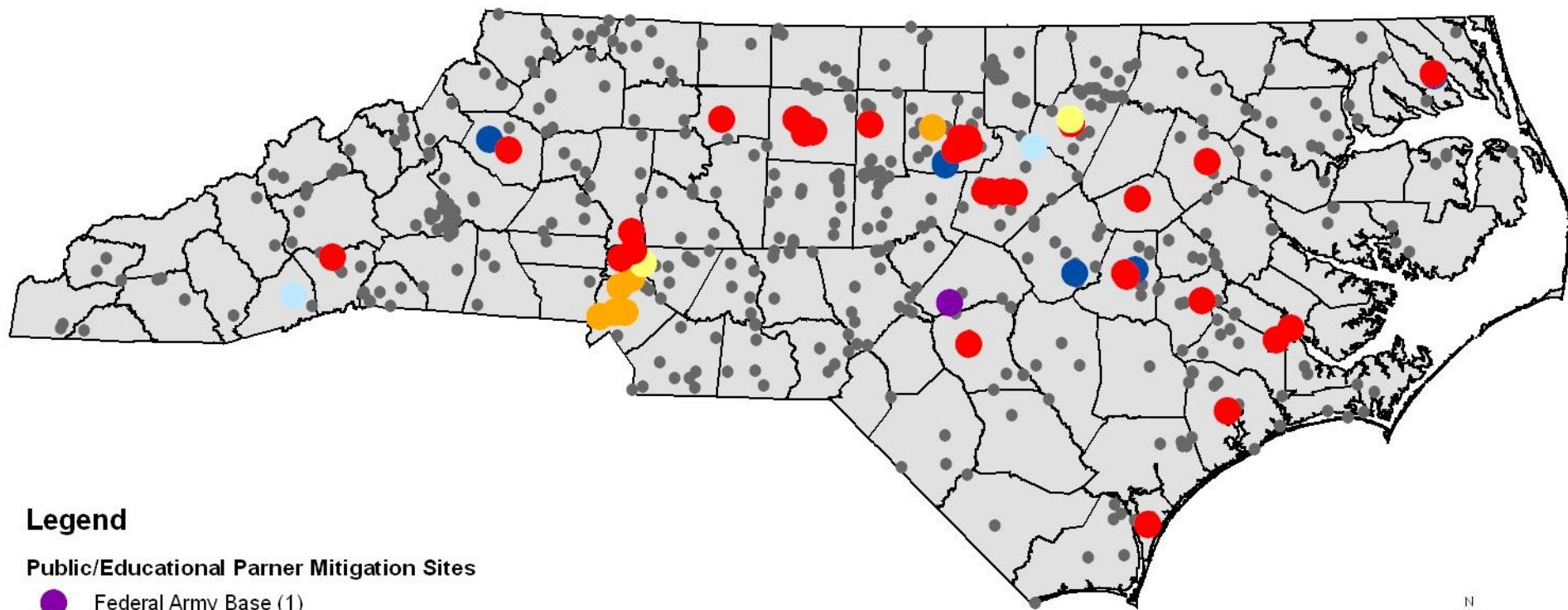
- Federal Army Base (1)
- City Park/Property (34)
- County Park (6)
- Public Grade School (2)
- Private Academic Institution (2)
- EEP Mitigation Site

0 50 100 Miles





## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

- Federal Army Base (1)
- City Park/Property (34)
- County Park (6)
- Public Grade School (2)
- Private Academic Institution (2)
- Public Academic Institution (6)
- EEP Mitigation Site

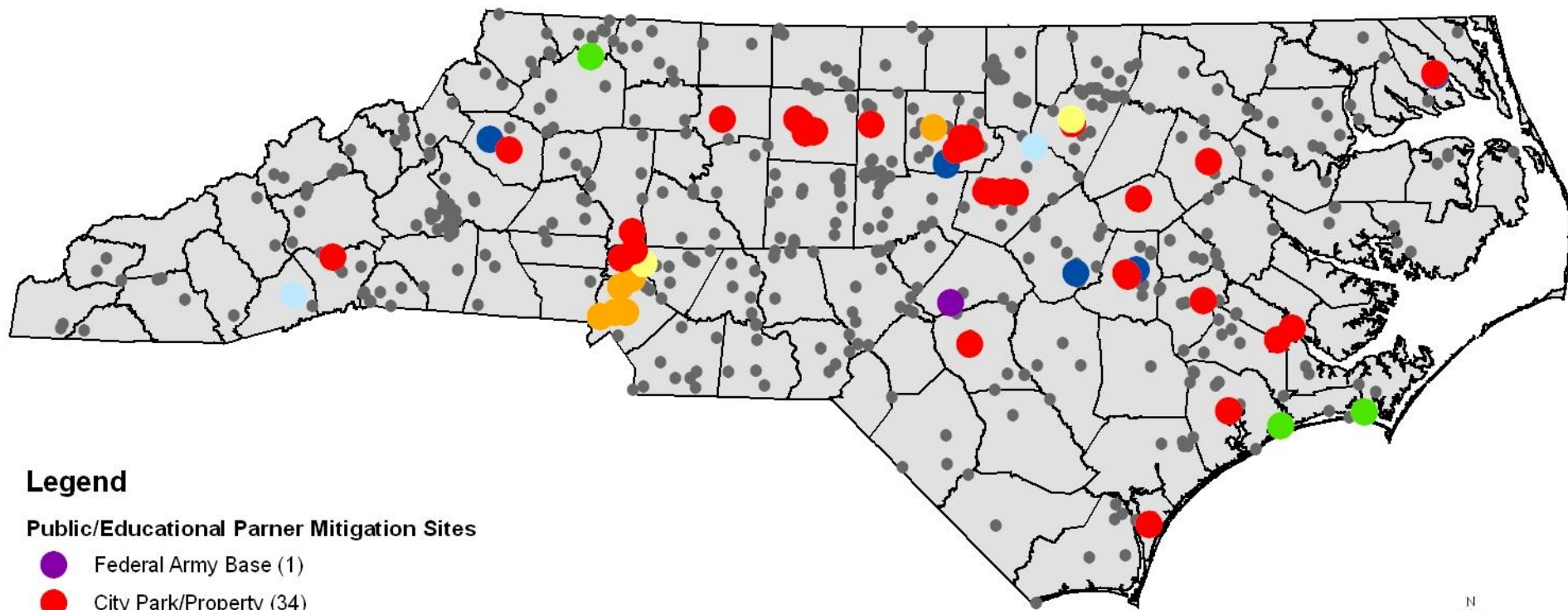
0 50 100 Miles







## EEP Projects Located on Public Lands



### Legend

#### Public/Educational Partner Mitigation Sites

- Federal Army Base (1)
- City Park/Property (34)
- County Park (6)
- Public Grade School (2)
- Private Academic Institution (2)
- Public Academic Institution (6)
- State Park (3)
- EEP Mitigation Site

0 50 100 Miles





# Procurement of Credits through Private Sector

Over  
**\$490**  
**Million**  
in private sector  
awards.

## EEP Relies on:

- Full-delivery providers & mitigation banks
- Environmental consulting/engineering firms
- Construction companies





# Procurement Processes

## Example Projects

- DBB Example – Warrior Creek
- FD Example – Holly Grove



# Design-Bid-Build Example: WARRIOR CREEK

- Yadkin River Basin
  - Wilkes County

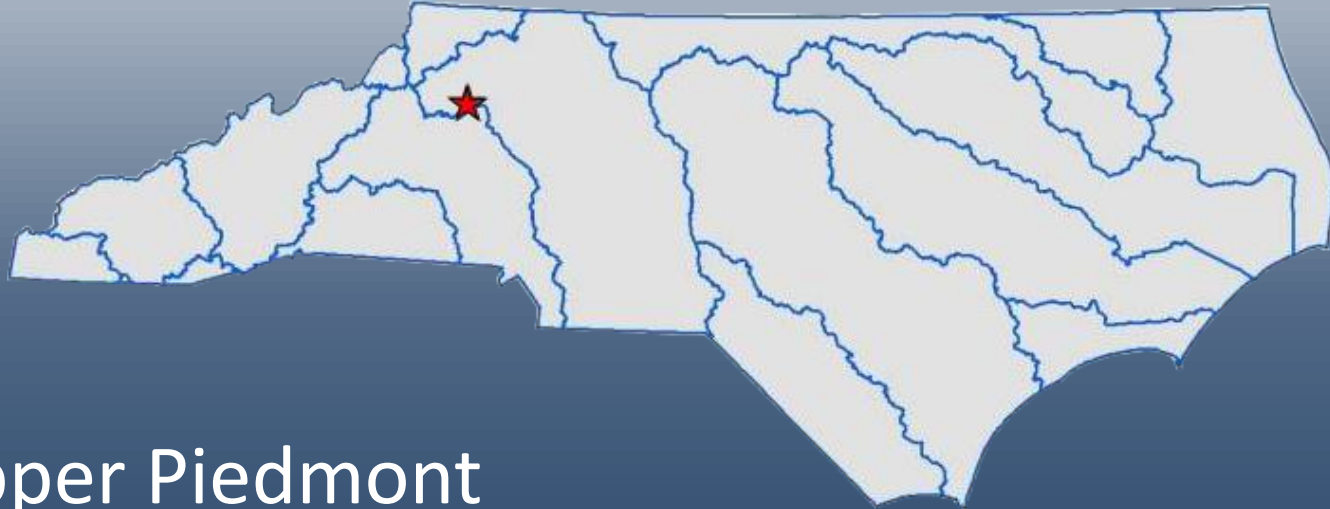


## 2002 On-Call Design Firms

- March 2002---15 design firms were awarded a 2-year on-call for EEP
- Up to \$700,000 of design services



# Warrior Creek



- Located Upper Piedmont near Wilkesboro
- Rural area
- Drains into W Kerr Scott Reservoir
- Cattle operations & farming



# Pre-Construction







# Property Acquisition

- 9 total properties, 7 landowners
- Donated conservation easements
- EEP installed fencing & alternative watering for cattle (\$177,259)
- Property closings, title searches, etc. (\$68,300)



# Design Services

- CDM Engineering assigned
- \$298,691 scope & fee
- Field work, design, bid administration and full-time construction management



# Design Deliverables

1. Conceptual plan
2. Mitigation Plan (submittal for Nationwide permit)
3. Sediment & Erosion Control Plan
4. Final design & bid package
5. Construction Closeout





# Construction

- 4 Construction firms submitted bids
- Shamrock Environmental awarded the construction bid and contracted (\$1,045,006)
- Initial Construction was complete September 2004
- Storm repair resulted in project construction extension
- 3 Change orders resulted in final cost of \$1,130,092
- Construction completed March 2005



# Construction Pre-Qualification (Current)

SL 2011-343

- EEP developed construction projects pre-qualification process
  - for Stream & Wetland
  - Minimum of 3 bids on all projects



# Additional Pre-Qualification Information

List of Construction Contractor Pre-qualifications:

[http://portal.ncdenr.org/web/eep/contractor\\_pre-qualification](http://portal.ncdenr.org/web/eep/contractor_pre-qualification)

Bid Tabulations:

<http://portal.ncdenr.org/web/eep/bid-results>



# Construction







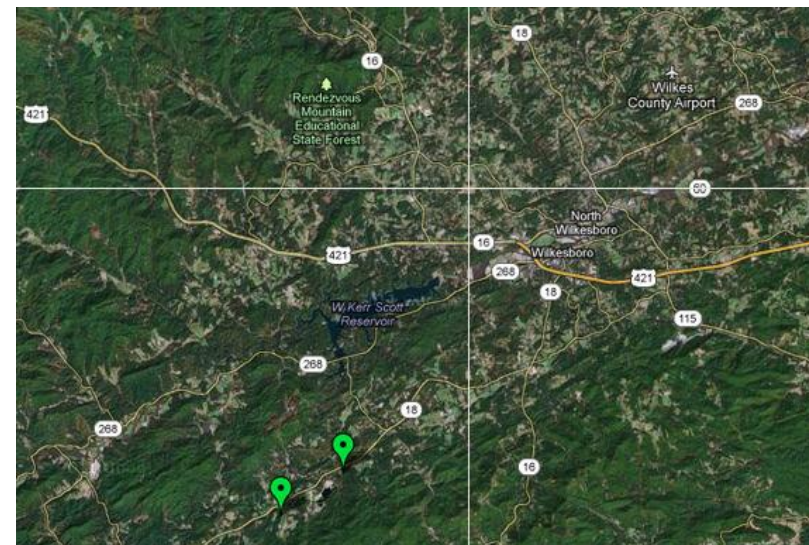
# Monitoring & Maintenance

- Monitoring-2005 -> 2011
- Total Monitoring cost-\$167,928
- Maintenance performed (replanting, invasive control and culvert repair) -- (\$39,806)



## Warrior Creek – Project Closeout

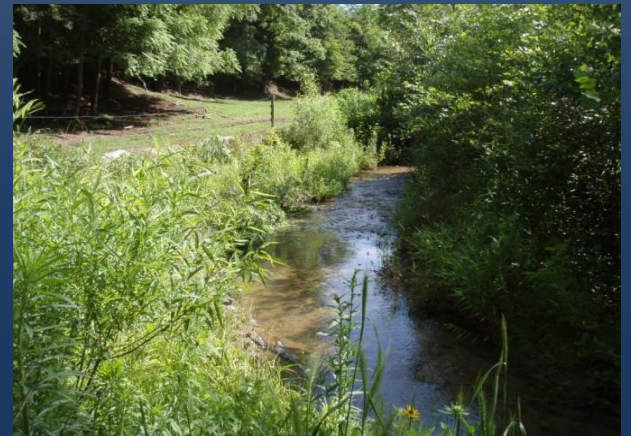
- Closed September 2012
- 10,232 stream credits
- Total Project Cost - \$1,933,385







# Post Construction





# Full-Delivery Example: HOLLY GROVE

- Cape Fear River Basin
  - Guilford County





# Full-Delivery RFP

- Request for Cape Fear River Basin projects issued Oct. 2005 for:
  - 17,000 stream credits
  - 31 non-riparian wetland credits



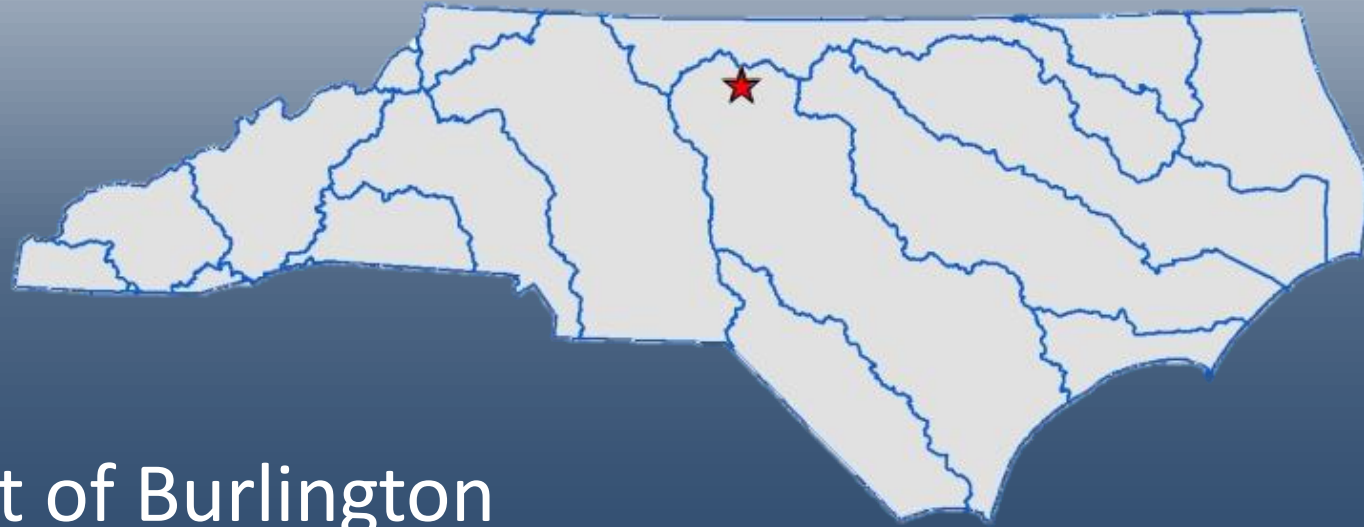
- 6 projects totaling 39,353 stream credits were in March 2006
- Site visits were performed to assess and assign a technical score to each site
- All 6 projects deemed technically feasible and sealed bids were opened
- 2 projects were selected for contract based on the lowest Adjusted Unit Cost (Bid amount divided by Technical Score)



- The projects contracted in June/July 2006 were Tributary to Reedy Fork Creek (Mulkey Engineering) and Holly Grove (Restoration Systems, LLC)
- These 2 projects delivered to EEP 22,726 stream credits at \$259/cr and \$260/cr respectively



# Holly Grove



- Northwest of Burlington
- Rural setting in the Piedmont
- Primarily farming





# Pre Construction





# Project Deliverables

- Environmental Resource Document
- Conservation easement
- Mitigation Plan
- Construction including planting
- Baseline Monitoring Report
- 5 years of Monitoring
- Closeout





# Construction

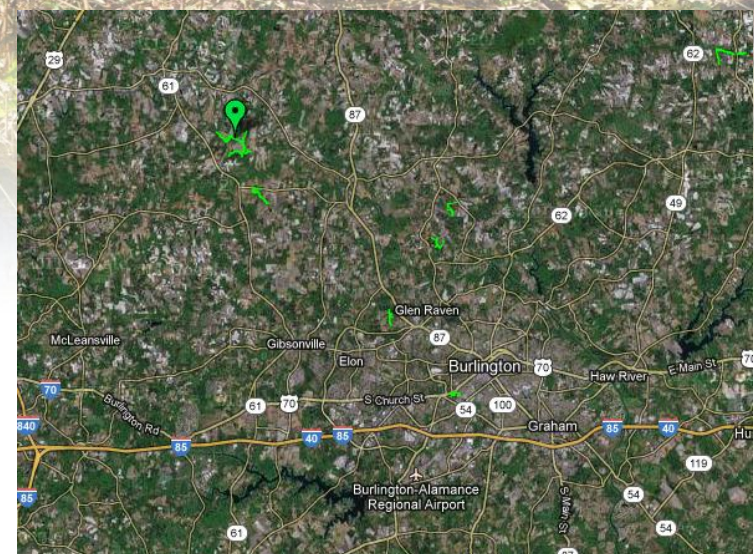






## Holly Grove – Project Facts

- Restoration Systems awarded \$4,088,760
- 15,726 stream credits at \$260/credit
- Completed 3 successful years of monitoring
- Anticipated close date: May 2014







# Post Construction





*Questions?*

